Introduction to Chat GPT

Chat GPT is a part of the GPT i.e. Generative Pre trained Transformer which transform the wide amount of text data into generate human like text. Chat GPT is one of the large language models that can perform NLP (Natural Language Processing) tasks such as text summarization, question answering , machine translation grammatically error correction within a single architecture. This model has demonstrated its potential in different sectors such as machine-human interaction, research, education, business, health and reasoning. It is a successor to Instruct GPT, a framework based on RLHF (Reinforcement Learning from Human Feedback) that allows the model to set with human values and preferences. It improves from LLMs (Large Language models) which are trained text corpora through unsupervised training. Now Chat GPT has gained remarkable attention and interest from many applicants due to its natural response and exceeding potential. (Tu, 6 Apr 202) .

The main objective of Chat GPT is to make the interaction between human and artificial intelligence more natural. Chat GPT provides more advancement over traditional bots found in the market.

History background of Chat GPT

In the computer science community, Artificial Intelligence Generated Content (AIGC) has gained, beyond attention where Chat GPT and DALL-E 2 were introduced by large tech companies. AIGC is the given human instructions using GAI algorithms () that helps to guide and teach the model to complete the task.

Recent AIGC has more sophisticated models for large datasets that uses larger foundation model architectures and accesses to extensive computational resources compared to prior works. Similarly both Chat GPT and DALLE-E 2 were developed by Open AI which can understand and respond to human language and are able to create high quality and unique images from textual descriptions within a few minutes respectively. The framework of GPT-3 maintains the same as GPT-2 but has better generalization ability than GPT-2 in terms of various tasks such as human intent extraction. The pre training data sizes grow from Web text (38GB) to Common Crawl (570GB after filtering) and the foundation model size grows from 1.5B to 175B.[ 8 and 9.]

How Chat GPT works: